MAN, Papas

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2011 question paper for the guidance of teachers

0620 CHEMISTRY

0620/62

Paper 6 (Alternative to Practical), maximum raw mark 60

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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	Page 2		Mark Scheme: Teachers' version Sylla		per
			IGCSE – May/June 2011	0620	Day
1	(a)	measurir	ng cylinder (1)	`	DaCambril
	(b)	evap	denser (1) accept condensing tube porating dish/basin/bowl (1) accept crystallising dish/basin/bd (1)		[3]
		(ii) A/dis	stillation (1)		[1]
	(c)	heat/eva	eference to filtering porate/use apparatus B (1) not 'heat' if the method would llising point/until saturated (1)	not work	[2]
2	(a)	Table of	results		
		•	emperatures correct (3), -1 for each incorrect up to 3 34, 38, 42 ignore decimal place unless incorrect		
		•	ture rises (1) 12, 16, 20 ignore decimal place unless incorrect		[4]
	(b)	straight I	otted correctly (2), -1 for each incorrect up to 2 ignore origine drawn with a ruler and missing anomalous point (1) go through origin, do not accept double lines	gin	[3]
	(c)	second p	point/Experiment 2/0.6 g zinc/6 °C (1) [1]		
	(d)	24 (1) ac	ccept 23.5–24.5 °C (1) extrapolation shown on grid (1)		[3]
	(e)	pink/red/	our turns colourless/paler/owtte (1) not just colour change brown/black solid (1) not Zn dissolves/Cu forms ubbles (1) not gas given off	s	max [2]
3	(a)	lamp ligh	nts (1) ubbles/green gas (1) ignore gas/H ₂ produced allow blea	ch like smell	[2]
	(b)	carbon/g	raphite/platinum (1)		[1]
	(c)	hydroger	n/H ₂ (1) not H		[1]
	(d)		oboard/ventilated area (1) e clothing e.g. gloves/goggles/lab coat/tie back hair (1)		[2]

F	aç	ge 3	Mark Scheme: Teachers' version	Syllabu	per		
			IGCSE – May/June 2011	0620	000		
E	Page 3 Mark Scheme: Teachers' version Syllable IGCSE – May/June 2011 0620 Experiment 1 (a) Table of results volume boxes completed correctly (3), –1 for each incorrect up to 3						
(a	•	 Table of results volume boxes completed correctly (3), -1 for each incorrect up to 3 13, 22, 30, 36, 43, 49 ignore decimal place unless incorrect 					
(k			ent 2 boxes completed correctly (3), –1 for each incorrect up 10, 13, 17, 20, 23 ignore decimal place unless inc		[3]		
(0	-	two smo	s correctly plotted (3), -1 for any incorrect up to 3 both line graphs and must go through <u>origin</u> (2) arly labelled (1)		[6]		
(c	d)	(i) Exp	eriment 1/acid X (1)		[1]		
			X stronger/more concentrated or converse (1) allow ore reference to catalyst/reactivity	12×	[1]		
(€))	reaction	finished (1) all acid used up (1) not Mg used up, igno	re reactants used up	[2]		
(f			om graph (1) 69–72 s allow ecf from incorrect graph ndication shown (1)		[2]		
(9		disadva	ge e.g. convenient/easy/quick to use/ <u>fairly</u> accurate (1) ntage e.g. reference to inaccurate measurement (1) llow 2 marks for references to accuracy)	[2]		
(k	o)	(i) whit	te (1) precipitate (1)		[2]		
	((ii) pap	er turns blue (1) pH>7 (1) smelly/pungent gas (1)		max [2]		
	((iii) no p	precipitate/reaction/change (1)		[1]		
(€	∌)	carbon o	dioxide/CO ₂ produced (1)		[1]		
(f	·)	calcium	(1) carbonate (1)		[2]		

6 known/fixed/same volume/same mass of water (1) temperature taken at beginning and end or temperature change (1) known mass/volume/change in mass of fuel (1) accept any measurement of mass of fuel ignite/burn the fuel or heat the water (1) accept flame in diagram both fuels tested (1) comparison (1) accept any attempt at comparison

[Total: 60]